

AMENDMENTS TO THE CLAIMS

Please make the following amendments to the claims:

1-40. (Cancelled)

41. (New) A method for determining latency for a real-time transport protocol (RTP) data flow between a first endpoint and a second endpoint, said RTP data flow transiting through a media router, comprising the steps of:

intercepting a first RTCP sender report from the first endpoint and a first RTCP receiver report from the second endpoint, each first report transiting through the media router;

intercepting a second RTCP sender report from the second endpoint and a second RTCP receiver report from the first endpoint, each second report transiting through the media router;
and

determining a round-trip delay between the first endpoint and the second endpoint based on a plurality of interception times, each interception time corresponding to the time of intercepting one of the RTCP reports.

42. (New) The method of claim 41, further comprising the steps of:

determining a first difference between the time of intercepting the first RTCP receiver report and the time of intercepting the first RTCP sender report;

determining a second difference between the time of intercepting the second RTCP receiver report and the time of intercepting the second RTCP sender report; and

combining the first and the second differences to produce the round-trip delay between the first endpoint and the second endpoint.

43. (New) The method of claim 41, wherein intercepting a first RTCP sender report comprises the steps of:

receiving, in the media router, the first RTCP sender report, the first sender report originating from the first endpoint and destined for the second endpoint and transiting through the media router; and

transmitting the first RTCP sender report to the second endpoint.

44. (New) The method of claim 41, wherein determining a first difference comprises the step of:

subtracting a first timestamp from a second timestamp, the first timestamp recording the time at which the first RTCP sender report was received in the media router, the second timestamp recording the time at which the first RTCP receiver report was received in the media router.

45. (New) The method of claim 44, further comprising the step of:
storing the first timestamp in the media router.

46. (New) The method of claim 41, further comprising the step of:
subtracting a delta last send report (DLSR) timestamp of the first RTCP receiver report from the round-trip delay.

47. (New) The method of claim 41, further comprising the step of:
dividing the round-trip delay in half to produce a one-way latency between the first endpoint and the second endpoint.

48. (New) A system for determining latency for a real-time transport protocol (RTP) data flow between a first endpoint and a second endpoint, said RTP data flow transiting through a media router, comprising:

means for intercepting a first RTCP sender report from the first endpoint and a first RTCP receiver report from the second endpoint, each first report transiting through the media router;

means for intercepting a second RTCP sender report from the second endpoint and a second RTCP receiver report from the first endpoint, each second report transiting through the media router; and

means for determining a round-trip delay between the first endpoint and the second endpoint based on a plurality of interception times, each interception time corresponding to the time of intercepting one of the RTCP reports.

49. (New) The method of claim 48, further comprising:

means for determining a first difference between the time of intercepting the first RTCP receiver report and the time of intercepting the first RTCP sender report;

means for determining a second difference between the time of intercepting the second RTCP receiver report and the time of intercepting the second RTCP sender report; and

means for combining the first and the second differences to produce the round-trip delay between the first endpoint and the second endpoint.

50. (New) The system of claim 48, wherein the means for intercepting a first RTCP sender report comprises:

means for receiving, in the media router, the first RTCP sender report, the first sender report originating from the first endpoint and destined for the second endpoint and transiting through the media router; and

means for transmitting the first RTCP sender report to the second endpoint.

51. (New) The system of claim 48, wherein the means for determining a first difference comprises:

means for subtracting a first timestamp from a second timestamp, the first timestamp recording the time at which the first RTCP sender report was received in the media router, the second timestamp recording the time at which the first RTCP receiver report was received in the media router.

52. (New) The system of claim 51, further comprising:

means for storing the first timestamp in the media router.

53. (New) The system of claim 48, further comprising:

means for subtracting a delta last send report (DLSR) timestamp of the first RTCP receiver report from the round-trip delay.

54. (New) The system of claim 48, further comprising:

means for dividing the round-trip delay in half to produce a one-way latency between the first endpoint and the second endpoint.

55. (New) An apparatus for determining latency for real-time transport protocol data flows, comprising:

a transceiver;

memory having stored thereon program code; and

a processor that is programmed by the program code to enable the apparatus to:

intercept a first RTCP sender report from the first endpoint and a first RTCP receiver report from the second endpoint, each first report transiting through the media router;

intercept a second RTCP sender report from the second endpoint and a second RTCP receiver report from the first endpoint, each second report transiting through the media router;

determining a round-trip delay between the first endpoint and the second endpoint based on a plurality of interception times, each interception time corresponding to the time of intercepting one of the RTCP reports.

56. (New) The apparatus of claim 55, wherein the processor is further programmed to enable the apparatus to:

determine a first difference between the time of intercepting the first RTCP receiver report and the time of intercepting the first RTCP sender report;

determine a second difference between the time of intercepting the second RTCP receiver report and the time of intercepting the second RTCP sender report; and

combine the first and the second differences to produce the round-trip delay between the first endpoint and the second endpoint.

57. (New) The apparatus of claim 55, wherein the processor is further programmed to enable the apparatus to:

receive, in the media router, the first RTCP sender report, the first sender report originating from the first endpoint and destined for the second endpoint and transiting through the media router; and

transmit the first RTCP sender report to the second endpoint.

58. (New) The apparatus of claim 55, wherein the processor is further programmed to enable the apparatus to:

subtract a first timestamp from a second timestamp, the first timestamp recording the time at which the first RTCP sender report was received in the media router, the second timestamp recording the time at which the first RTCP receiver report was received in the media router.

59. (New) The apparatus of claim 58, wherein the processor is further programmed to enable the apparatus to:

store the first timestamp in the media router.

60. (New) The apparatus of claim 55, wherein the processor is further programmed to enable the apparatus to:

subtract a delta last send report (DLSR) timestamp of the first RTCP receiver report from the round-trip delay.

61. (New) The apparatus of claim 55, wherein the processor is further programmed to enable the apparatus to:

divide the round-trip delay in half to produce a one-way latency between the first endpoint and the second endpoint.